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SPECIAL PUBLICATION 535
Volume 2 (A through L)

Catalog of National Bureau of Standards Publications 1966-1976

Key Word Index



U.S. Department of Commerce

NATIONAL BUREAU OF STANDARDS

The National Bureau of Standards¹ was established by an act of Congress March 3, 1901. The Bureau's overall goal is to strengthen and advance the Nation's science and technology and facilitate their effective application for public benefit. To this end, the Bureau conducts research and provides: (1) a basis for the Nation's physical measurement system; (2) scientific and technological services for industry and government; (3) a technical basis for equity in trade; and (4) technical services to promote public safety. The Bureau's technical work is performed by the National Measurement Laboratory, the National Engineering Laboratory, and the Institute for Computer Sciences and Technology.

THE NATIONAL MEASUREMENT LABORATORY provides the national system of physical and chemical and materials measurement; coordinates the system with measurement systems of other nations and furnishes essential services leading to accurate and uniform physical and chemical measurement throughout the Nation's scientific community, industry, and commerce; conducts materials research leading to improved methods of measurement, standards, and data on the properties of materials needed by industry, commerce, educational institutions, and Government; provides advisory and research services to other Government Agencies; develops, produces, and distributes Standard Reference Materials, and provides calibration services. The Laboratory consists of the following centers:

Absolute Physical Quantities² — Radiation Research — Thermodynamics and
Molecular Science — Analytical Chemistry — Materials Science

THE NATIONAL ENGINEERING LABORATORY provides technology and technical services to users in the public and private sectors to address national needs and to solve national problems of the public interest; conducts research in engineering and applied science in support of objectives in these efforts; builds and maintains competence in the necessary disciplines required to carry out this research and technical service; develops engineering data and measurement capabilities; provides engineering measurement traceability services; develops test methods and proposes engineering standards and code changes; develops and proposes new engineering practices; and develops and improves mechanisms to transfer results of its research to the ultimate user. The Laboratory consists of the following centers:

Applied Mathematics — Electronics and Electrical Engineering² — Mechanical
Engineering and Process Technology² — Building Technology — Fire Research —
Consumer Product Technology — Field Methods

THE INSTITUTE FOR COMPUTER SCIENCES AND TECHNOLOGY conducts research and provides scientific and technical services to aid Federal Agencies in the selection, acquisition, application, and use of computer technology to improve effectiveness and economy in Government operations in accordance with Public Law 89-306 (40 U.S.C. 759), relevant Executive Orders, and other directives; carries out this mission by managing the Federal Information Processing Standards Program; developing Federal ADP standards guidelines; and managing Federal participation in ADP voluntary standardization activities; provides scientific and technological advisory services and assistance to Federal Agencies; and provides the technical foundation for computer-related policies of the Federal Government. The Institute consists of the following divisions:

Systems and Software — Computer Systems Engineering — Information Technology

Headquarters and Laboratories at Gaithersburg, Maryland, unless otherwise noted;
mailing address: Washington, D.C. 20234.

Some divisions within the center are located at Boulder, Colorado, 80303.

The National Bureau of Standards was reorganized, effective April 9, 1978.

JUN 19 1979

Volume 2: Key Word Index (A through L)

Catalog of National Bureau of Standards Publications, 1966-1976

An 11-year key word index to NBS publications with references to citations and abstracts in SP535, Volume 1, Parts 1 and 2 and/or NBS SP305, and its Supplements 1-8

Betty L. Burris and Rebecca J. Morehouse, Editors

Technical Information and Publications Division
National Bureau of Standards
Washington, DC 20234



U.S. DEPARTMENT OF COMMERCE
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Dr. Sidney Harman, Under Secretary
Jordan J. Baruch, Assistant Secretary
for Science and Technology

NATIONAL BUREAU OF STANDARDS
Ernest Ambler, Director

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535, Volume 2 (A through L)

An 11-year key word index to NBS publications
issued 1966 through 1976 with references to citations
and abstracts in SP535, Volume 1, Parts 1 and 2

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840 pages (1978)

CODEN: XNBSAV

Issued 1978

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Washington: 1978

For sale by the Superintendent of Documents, U.S. Government
Printing Office, Washington, DC 20402. (Order by SD Stock No.
003-003-02011-7). Price \$21.25 per 2 part set; sold in sets only. (Add 25
percent additional for other than U.S. mailing.)

PREFACE

Throughout the history of the National Bureau of Standards, publications have served as the single most effective means for conveying results of Bureau research to the Bureau's diverse audiences. Much of this research has lasting value, and publications reporting Bureau work of many years ago are still consulted by current researchers. Because of these facts, NBS is issuing this catalog of Bureau publications from 1966 through 1976. Each of the two volumes may be used separately, or they may be used to complement each other. Volume 1 consists of abstracts and a full bibliographic citation for each paper. It is an accumulation of the complete citations originally appearing in the NBS annual publications catalogs: NBS SP305 and its Supplements 1 through 8. It also contains availability information not only for currently in-print papers but also for NBS publications series which are no longer in print. Volume 2 consists of a permuted key word index for all papers. See the "Guide to Users of This Publication" for more details on how to most effectively use each volume.

The NBS publications series (presently consisting of 11 non-periodicals and 3 periodicals) provides a matrix which makes it possible to issue each NBS paper in a medium best calculated to reach its most interested specific audience. Throughout the years, this matrix has evolved to reflect changing emphases in Bureau work. Some former publications series have been eliminated; some have been modified; new ones have been created. The "Miscellaneous Publications" series, for example, was superseded by "Special Publications" in 1970. The NBS Journal of Research evolved into three publications, each reporting work in a different discipline, and now has further evolved to the present single volume which reports work in all NBS technical areas. NBS publications series, past and present, are listed and described. (Currently active NBS publications series are described more briefly on the inside back cover of this catalog's two volumes.)

One final note, as the years pass we have constantly attempted to expand the usefulness and comprehensiveness of our *annual* publications catalog. To this end, we have utilized new computer technology as it became available—for composition as well as for cataloging purposes. In earlier years we were only able to include the overall abstract for a conference or symposium Proceedings. For the past several years we have been able to include, in addition, abstracts for the individual papers presented. Also, for the past several years we have been able to include information on Patents, Grant/Contract Reports, and other items which we had not been able to cover previously—all this toward the end of increasing the catalog's usefulness in communicating NBS work to the public.

We hope this summary of former NBS effort will facilitate the work of those who use it. This two-volume catalog of NBS publications covering calendar years 1966 through 1976 will be updated by the annual catalog supplements. The 1977 supplement is currently available as NBS SP305, Supplement 9. (See Section 2.2.)

W. R. Tilley, Chief
Technical Information and
Publications Division

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A GUIDE TO USERS OF THIS PUBLICATION

This 11-year record of NBS publications is available in two volumes, each of which may be used independently.

Volume 1, issued in two parts because of its length, consists of abstracts for publications issued by NBS from 1966 through 1976. It also contains general availability information for current and out-of-print NBS publications and a general overview of the NBS publications program. Frequently, the full abstract will satisfy the user's need for information and preclude the need for further research or for acquiring the full paper. Volume 1 reports papers by NBS publications series, as shown in its Table of Contents. If the user does know the NBS publications series involved but does not know the year of publication, this format will be especially useful.

Volume 2, also issued in two parts, consists of a permuted key word index. The key words for each publication or paper are arranged by shifting each group of key words so that each key word, in turn, appears alphabetically followed by the other key words in that group. Volume 2, which also contains the availability

and overview information for current and out-of-print NBS publications, may be used in three ways:

(a) as a reference to the abstract given in Volume 1 of this catalog (for papers reported in the annual catalogs, SP305 and Supplements 1 through 8);

(b) as a reference to the abstract in the appropriate annual NBS publications catalog (if available to the reader; see list in Section 2.3);

(c) as a reference to the paper itself, available in a regional depository library, from the National Technical Information Service, or from the original publisher or publication medium, if the paper is still in print. (See availability information in Section 2.).

If the reader does not know the NBS publications series or title of the paper, or is interested in a specific subject matter area, the key word format of Volume 2 will prove useful.

Tables of the abbreviations used to identify various NBS publications series are given below. The tables include the Volume 1 page numbers on which the series listings begin.

SYMBOLS FOR NBS PUBLICATIONS

A. Symbols for the Periodicals

NBS Journal of Research	Index Symbol		Issue Date	Volume 1 Page
	Vol.	Sec. No.		
Section A	J. Res. 70 through 80	A 1 through 6	July 1966 through December 1976	1
Section B	J. Res. 70 through 80	B 1 through 4	July 1966 through December 1976	88
Section C	J. Res. 70 through 76	C 1 through 4	July 1966 through June 1972	124

Journal of Physical and Chemical Reference Data	Index Symbol		Issue Date	Page
	Vol. JPCRD 1 through 5	No. 1 through 4		
			January 1972 through December 1976	145

DIMENSIONS/NBS	Index Symbol		Issue Date	Page
	Vol. DIM/NBS 57 through 60	No. 1 through 12		
			January 1973 through December 1976	162

B. Symbols for the Nonperiodicals

NBS Nonperiodical Series	Index Symbol	Page
Monographs	Monogr.	174
Handbooks	H	188
Miscellaneous Publications	MP	192
Special Publications	SP	195
Applied Mathematics Series	AMS	497
National Standard Reference Data Series	NSRDS	498
Building Science Series	BSS	507
Federal Information Processing Standards	FIPS PUBS	531
Commercial Standards	CS	537
Simplified Practice Recommendations	SPR	537
Voluntary Product Standards	PS	537
Technical Notes	TN	545
Consumer Information Series	CIS	645
NBS Interagency Reports	NBSIR	646
Grantee/Contractor Reports and Patents	GCR and/or U.S. Patent	735

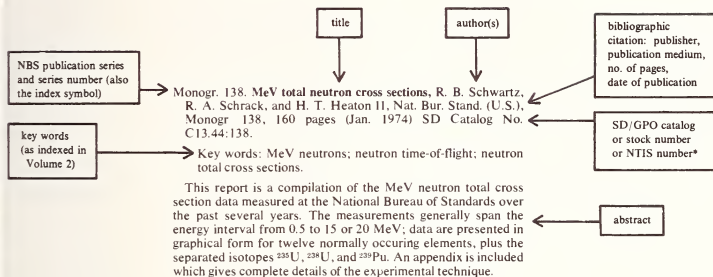
C. Symbols for the Papers Published in Non-NBS Media (1966-1976)

NBS Papers Published in Non-NBS Media	Index Symbol	Volume 1, Page
Professional Journals, Books, Book Chapters, Proceedings, etc.	Arabic numbers: 9150 through 16658	754

SAMPLE
ENTRIES
FROM
VOLUMES
1 AND 2
FOLLOW

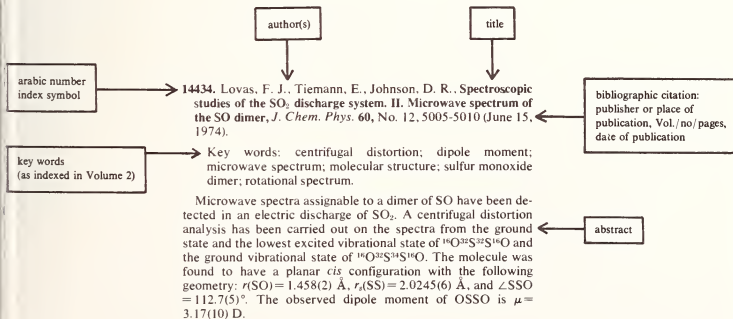
CATALOG ENTRIES: HOW TO READ THEM

A. Sample Entries from Volume 1



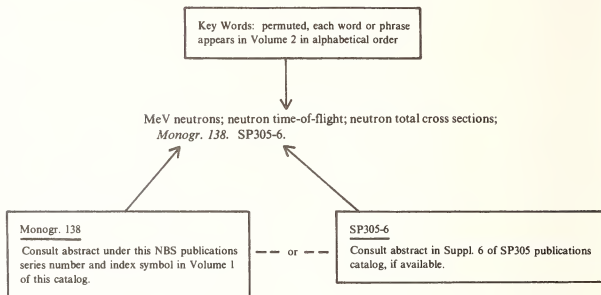
*Verify this number in Status List (pages XVIII to XLIII)

Example of NBS published paper. (See Section 2 for status and availability.)

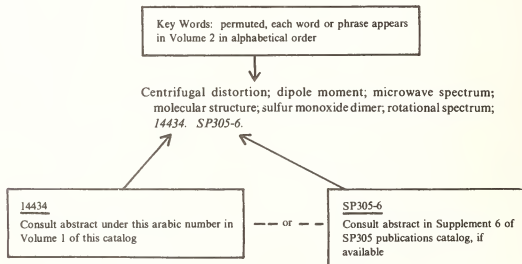


Example of NBS paper published in non-NBS medium

B. Sample Entries from Volume 2.



Example of NBS published paper. (See Section 2 for status and availability.)



Example of NBS paper published in non-NBS medium

1. NBS PUBLICATION PROGRAM

1.1. INTRODUCTION

The formal publications of the National Bureau of Standards provide the primary means of communicating the results of NBS programs to its varied technical audiences as well as to the general public. Publications thus constitute a major end product of the Bureau's efforts. These take the form of the Bureau's periodicals, its nonperiodical series, interagency reports, and articles in the journals of professional organizations and technological associations.

The various media in which the results of NBS programs appear are as follows:

1.2. PERIODICALS

1.2.1. JOURNAL OF RESEARCH

Since July 1977, the Journal of Research has been published on a single-volume, bi-monthly basis. See the inside back cover for a description of the present Journal which reports NBS research and development in those disciplines of the physical and engineering sciences in which the Bureau is active.

Annual subscription: domestic \$17.00; foreign, \$21.25. Single copy, \$3.00 domestic; \$3.75 foreign.

The Journal was formerly published in three sections: Section A "Physics and Chemistry," Section B "Mathematical Sciences," and Section C "Engineering and Instrumentation." Papers published in these former versions of the Journal are reported in this catalog. Each section's coverage is briefly described below:

A. Physics and Chemistry (July 1966 through December 1976)

Contained papers of interest primarily to scientists working in these fields.

B. Mathematical Sciences (July 1966 through December 1976)

Presented studies and compilations designed mainly for the mathematician and the theoretical physicist.

C. Engineering and Instrumentation (July 1966 through June 1972)

Reported research and development results of interest chiefly to the engineer and to the applied scientist.

1.2.2. DIMENSIONS/NBS

This magazine is published to inform both the technical expert and the interested layman of the latest advances in science and technology, with primary emphasis on the work at NBS. The magazine highlights and reviews such issues as energy research, fire protection, building technology, metric conversion, pollution abatement, health and safety, and consumer product performance. In addition, it reports the results of Bureau programs in measurement standards and techniques, properties of matter and materials, engineering standards and services, instrumentation, and automatic data processing. Formerly issued monthly. The tables of contents for each issue of DIMENSIONS/NBS (formerly Technical News Bulletin) for the years 1973 through 1976 are listed in Section 3.5.

1.2.3. JOURNAL OF PHYSICAL AND CHEMICAL REFERENCE DATA (JPCRD)

This Journal is published quarterly by the American Chemical Society and the American Institute of Physics for the National Bureau of Standards. The objective of the Journal is to provide critically evaluated physical and chemical property data, fully documented as to the original sources and the criteria used for evaluation. Critical reviews of measurement techniques, whose aim is to assess the accuracy of available data in a given technical area, are also included. The principal source for the Journal is the National Standard Reference Data System (NSRDS). The Journal is not intended as a publication outlet for original experimental measurements such as are normally reported in the primary research literature, nor for review articles of a descriptive or primarily theoretical nature. (See also Section 1.3. National Standard Reference Data Series.)

1.3. NONPERIODICALS

Several categories of nonperiodical publica-

tions, described as follows, are listed in this catalog:

MONOGRAPHS—major contributions to the technical literature on various subjects related to the Bureau's scientific and technical activities.

HANDBOOKS—recommended codes of engineering and industrial practice (including safety codes) developed in cooperation with interested industries, professional organizations, and regulatory bodies.

MISCELLANEOUS PUBLICATIONS. The name of this series was changed to Special Publications in 1970.

SPECIAL PUBLICATIONS—include proceedings of conferences sponsored by NBS, NBS annual reports, and other special publications appropriate to this grouping such as wall charts, pocket cards, and bibliographies.

Special subject-matter subseries include Semiconductor Measurement Technology (SP400-), Standard Reference Materials (SP260-), and Precision Measurement and Calibration (SP300-).

APPLIED MATHEMATICS SERIES—mathematical tables, manuals, and studies of special interest to physicists, engineers, chemists, biologists, mathematicians, computer programmers, and others engaged in scientific and technical work.

NATIONAL STANDARD REFERENCE DATA SERIES—provides quantitative data on the physical and chemical properties of materials, compiled from the world's literature and critically evaluated. Developed under a worldwide program coordinated by NBS, under authority of National Standard Data Act (Public Law 90-396). This series supplements the JPCRD, see also Section 3.4.

BUILDING SCIENCE SERIES—disseminates technical information developed at the Bureau on building materials, components, systems, and whole structures. The series presents research results, test methods, and performance criteria related to the structural and environmental functions and the durability and safety characteristics of building elements and systems.

TECHNICAL NOTES—studies or reports

which are complete in themselves but restrictive in their treatment of a subject. Analogous to monographs but not so comprehensive in scope or definitive in treatment of the subject area. Often serve as a vehicle for final reports of work performed at NBS under the sponsorship of other government agencies.

Special subject-matter subseries include Optical Radiation Measurements (TN594-) and Self Calibrations Manual for Optical Radiation (TN910-).

COMMERCIAL STANDARDS AND SIMPLIFIED PRACTICE RECOMMENDATIONS. See Voluntary Product Standards below.

VOLUNTARY PRODUCT STANDARDS—developed under procedures published by the Department of Commerce in Part 10, Title 15, of the Code of Federal Regulations. The purpose of the standards is to establish nationally recognized requirements for products, and to provide all concerned interests with a basis for common understanding of the characteristics of the products. The National Bureau of Standards administers the Voluntary Product Standards program as a supplement to the activities of the private sector standardizing organizations.

FEDERAL INFORMATION PROCESSING STANDARDS PUBLICATIONS (FIPS PUBS)—publications in this series collectively constitute the Federal Information Processing Standards Register. Register serves as the official source of information in the Federal Government regarding standards issued by NBS pursuant to the Federal Property and Administrative Services Act of 1949 as amended, Public Law 89-306 (79 Stat. 1127), and as implemented by Executive Order 11717 (38 FR 12315, dated May 11, 1973) and Part 6 of Title 15 CFR (Code of Federal Regulations).

Public distribution of FIPS PUBS is by purchase from the National Technical Information Service, Springfield, VA 22161.

CONSUMER INFORMATION SERIES—practical information, based on NBS research and experience, covering areas of interest to the consumer. Easily understandable language and illustrations provide useful background knowl-

edge for shopping in today's technological marketplace.

1.4. NBS INTERAGENCY REPORTS

A special series of interim or final reports on work performed by NBS for outside sponsors (both government and non-government). In general, initial distribution is handled by the sponsor; public distribution is by the National Technical Information Service (Springfield, VA 22161) in paper copy or microfiche form. See pages XVIII to XLIII.)

1.5. GRANTEE/CONTRACTOR REPORTS AND PATENTS

Grantee/contractor reports are prepared by non-NBS persons or organizations working under grant or contract from the National Bureau of Standards. Those contract reports not incorporated into the formal NBS publication series are available directly from the National Technical Information Service (NTIS), Springfield, VA 22161, in paper copy or microfiche form unless otherwise stated. When ordering a report from NTIS you must order it by the "COM, PB, AD, or N" number as indicated.

Patents are obtained on NBS inventions of high commercial potential, in order to establish Government ownership of the patent rights. The patents are then made available for the grant of nonexclusive licenses to all qualified applicants. A limited exclusive license may be granted under a particular patent, however, if it appears that some period of exclusivity is necessary as an incentive for the investment of risk capital. For information on licensing any of the NBS held patents, write to the Office of the Legal Adviser, National Bureau of Standards, Washington, DC 20234. Copies of patents may be obtained from the U.S. Patent and

Trademark Office, Washington, DC 20231 for 50 cents each.

1.6. NBS BIBLIOGRAPHIC SUBSCRIPTION SERVICES

The Cryogenic Data Center of the National Bureau of Standards, Boulder, CO has developed specialized bibliographic issuances designed to provide interested audiences with information on latest developments in certain specialized fields. These issuances, together with subscription information, are listed below:

CRYOGENIC DATA CENTER CURRENT AWARENESS SERVICE (Publications and Reports of Interest in Cryogenics). A literature survey issued weekly. Annual subscription: Domestic, \$25.00; Foreign, \$30.00.

LIQUEFIED NATURAL GAS. A literature survey issued quarterly. Annual subscription: \$20.00.

SUPERCONDUCTING DEVICES AND MATERIALS. A literature survey issued quarterly. Annual subscription: \$30.00.

Send subscription orders and remittances for the preceding bibliographic services to the National Bureau of Standards, Cryogenic Data Center (736.00), Boulder, CO 80303.

1.7. PAPERS PUBLISHED BY OTHERS

Many significant contributions by NBS authors are published in other journals. Up-to-date listings of these articles are carried regularly in the Journal of Research and the annual publications catalog (NBS SP305), along with abstracts, key words, and author/subject indexes. Except for the author index, the complete citations for years 1966-1976 have been reprinted in this two-volume catalog.

2. PURCHASE PROCEDURES AND DOCUMENT AVAILABILITY

2.1. PURCHASE PROCEDURES

Many recent publications of the Bureau are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, at the prices listed in this publication. However prices are subject to change without notice. You may also order

through the U.S. Department of Commerce Field Office nearest you. Microfiche copies of all recent NBS publications, and paper copies of many non-periodicals, may be ordered through the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. Note that three of the non-periodical

series are available only from NTIS; these are FIPS PUBS., NBS Interagency Reports (NBSIR's), and Grantee/Contractor Reports (GCR's). This section includes current price lists of available publications, plus instructions on how to acquire reprints of articles by NBS authors, and how to get out-of-print material.

How To Make Remittances. Remittances for publications for which individual sales or subscription prices are shown should be mailed to Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, by postal money order, express money order, or check. Postage stamps will not be accepted. Publications cannot be mailed before remittances are received. *Foreign remittances should be made either by international money order, draft on an American bank or UNESCO coupons.*

The letter symbol, publication number, full title of the publication, SD catalog or SD stock number MUST be given when ordering. The Superintendent of Documents allows a discount of 25 percent on orders of 100 or more copies of one publication.

Persons who make frequent purchases from the Superintendent of Documents may find a deposit account convenient. Deposits of \$50 or more are accepted against which orders may be placed without making individual remittances or first obtaining quotations. Order blanks are furnished for this purpose. After the order has been processed, the order itself is returned, showing the publications supplied, explanations regarding those not sent, the amount of charge, and the balance on deposit.

No charge is made for postage on documents sent to points in the United States and its possessions. In computing foreign postage, the charge is approximately one-fourth of the current selling price of the publication. The charge is to cover the special handling required to comply with the customs and international mailing regulations.

How To Make Remittances to NTIS. Orders for publications purchased from the National Technical Information Service (NTIS) must be accompanied by postal money order, express money order, or check made out to the NTIS

and covering total cost of the publication order. All inquiries or orders should be addressed to: National Technical Information Service, Springfield, VA 22161.

2.2. ANNOUNCEMENT OF NBS PUBLICATIONS

The National Bureau of Standards and the agencies mentioned below regularly issue the following official announcements dealing with NBS publications.

DIMENSIONS/NBS. Issued monthly by the National Bureau of Standards. In addition to publishing technical news of the Bureau, this periodical announces selected new publications in an NBS series. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Annual subscription, \$11.00; \$13.75 foreign. Single copies \$1.10 domestic; \$1.40 foreign each.

NBS JOURNAL OF RESEARCH. The Journal carries a listing of all NBS publications as issued. See Section 2.6 for subscription information.

Monthly Catalog of United States Government Publications. Issued monthly by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Annual subscription, with consolidated annual index, \$45.00; \$56.00 foreign.

Selected List of U.S. Government Publications. Issued monthly by the Superintendent of Documents. Each list is arranged by subject, with annotations, prices, and order form. May be obtained free from the U.S. Government Printing Office, Superintendent of Documents, Mail List Section, Stop SSOM, Washington, DC 20402.

Business Service Check List. Bi-weekly announcement of publications of the Department of Commerce. Lists titles and prices of National Bureau of Standards publications, as well as those of other offices of the Department of Commerce. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Annual subscription, \$9.00; \$11.25 foreign.

NBS Publications Newsletter. This newsletter is issued approximately six times a year.

t presents full citations, including abstracts and availability information, for NBS papers announced during the report period. Its primary audience includes librarians, documentalists and science information specialists. However, other NBS audiences also find it useful as a guide to new NBS publications.

Contact: Editor, NBS Publications Newsletter, Technical Information and Publications Division, National Bureau of Standards, Washington, DC 20234.

2.3. CATALOGS OF NBS PUBLICATIONS

The following constitute a complete list of the titles of the Bureau's publications through December 31, 1977. The catalogs are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, unless otherwise stated, or may be consulted in a library which maintains sets of National Bureau of Standards publications. Note that all citations in NBS SP305 and its Supplements 1 through 8 are accumulated into this two-volume catalog.

Circular 460: Publications of the National Bureau of Standards 1901 to June 30, 1947. 375 pages including subject and author indexes. Brief abstracts are included for the period January 1, 1941 to June 30, 1947	*
Supplement to Circular 460: Publications of the National Bureau of Standards, July 1, 1947 to June 30, 1957. 373 pages, including subject and author indexes	*
Miscellaneous Publication 240: Publications of the National Bureau of Standards, July 1, 1957 to June 30, 1960. First NBS Catalog to include Titles of Papers Published in Outside Journals 1950 to 1959. 391 pages, including subject and author indexes	*
Supplement to Miscellaneous Publication 240: Publications of the National Bureau of Standards published by NBS, July 1960 through June 1966; published by others, 1960 through 1965. 740 pages, including subject and author indexes	*
Special Publication 305: Publications of the National Bureau of Standards, published by NBS, July 1966 through December 1967; published by others, 1966-1967. 223 pages, a citation of titles and abstracts, with key words and author indexes	*
Supplement 1 to Special Publication 305: Publications of the National Bureau of Standards, 1968 through 1969. 497 pages, a citation of titles and abstracts, with key words and author indexes	*
Supplement 2 to Special Publication 305: Publications of the National Bureau of Standards,	

1970. 378 pages, a citation of titles and abstracts, with key words and author indexes	*
Supplement 3 to Special Publication 305: Publications of the National Bureau of Standards, 1971. 342 pages, a citation of titles and abstracts, with key words and author indexes	*
Supplement 4 to Special Publication 305: Publications of the National Bureau of Standards, 1972. 449 pages, a citation of titles and abstracts, with key words and author indexes	\$4.20
Supplement 5 to Special Publication 305: Publications of the National Bureau of Standards, 1973. 349 pages, a citation of titles and abstracts, with key words and author indexes	\$4.15
Supplement 6 to Special Publication 305: Publications of the National Bureau of Standards, 1974. 523 pages, a citation of titles and abstracts, with key words and author indexes	\$6.80
Supplement 7 to Special Publication 305: Publications of the National Bureau of Standards, 1975. 595 pages, a citation of titles and abstracts, with key words and author indexes	\$7.55
Supplement 8 to Special Publication 305: Publications of the National Bureau of Standards, 1976. 728 pages, a citation of titles and abstracts, with key words and author indexes	\$8.25
Supplement 9 to Special Publication 305: Publications of the National Bureau of Standards, 1977. 601 pages, a citation of titles and abstracts, with key words and author indexes	\$8.00

* Available by purchase from the National Technical Information Service, Springfield, VA 22161.

2.4. FUNCTIONS OF DEPOSITORY LIBRARIES IN THE UNITED STATES

The Superintendent of Documents, United States Government Printing Office, is authorized by law to furnish Government publications to designated depository libraries.

Under provisions of Title 44 of the United States Code, certain libraries are designated depositories for Government publications. Through them, Federal Government documents are made available to residents of every State, District of Columbia, Guam, Puerto Rico, and the Virgin Islands. Distribution to the libraries is made by the Office of the Superintendent of Documents.

It is sometimes impossible to obtain desired publications by purchase from the Superintendent of Documents. Stocks may have been exhausted or the document may be permanently out of print. In these instances the depositories render an invaluable service by keeping such publications permanently available. Every Government publication cannot be consulted at all depository libraries. Designated Regional Depositories are required to receive

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These libraries are now receiving selected publication series of the National Bureau of Standards for general reference use. Whether a given library has a copy of a particular publication can be determined by inquiring at the library.

2.5. FUNCTIONS OF U.S. DEPARTMENT OF COMMERCE DISTRICT OFFICES

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Those NBS publications not listed in the Price Lists are out of print and are not available

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Certain NBS publications are out of print because they have been replaced, or partially replaced, by material issued by other organizations. In this connection NBS is able to offer the following information:

Circular 410, National Standard Petroleum Oil Tables. Information in this Circular has been incorporated in the ASTM-IP Petroleum Measurement Tables issued as D1250 by the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103. Available at \$12.75, 20% off to ASTM members. Tables 5 and 7 of the ASTM-IP Tables may also be purchased from the ASTM in separate reprint form at \$2.25 and \$2.00 per copy respectively. *Circular 438, Static Electricity.* The National Fire Protection Association, 60 Batterymarch Street, Boston, MA 02110, has issued a publication by the same title, available from them as NFPA Publication 77, at \$3.00.

Circular 499, Nuclear Data. Replaced by Atomic and Nuclear Data Tables, published by Academic Press, 111 Fifth Avenue, New York, NY 10003. Available by subscription for \$108.00 per year.

Circular 564, Tables of Thermal Properties of Gases. A reprinted edition is available from University Microfilms, Inc., Ann Arbor, MI 48106. Order as OP 12,192 for \$56.80. Microfiche of this Circular is available from Cryogenic Data Center, National Bureau of Standards, Boulder, CO 80302.

Circular 576, Automotive Antifreezes. For information on this subject consult American National Standards Institute, 1430 Broadway, New York, NY 10018.

Circular 577 and Supplement, Energy Loss and Range of Electrons and Positrons. These have been superseded by NASA Special Publication

3012, available from the National Technical Information Service, Springfield, VA 22161, at \$6.75 hardcopy and \$3.00 microfiche number N65-12506.

Miscellaneous Publication 179, American Standard Building Code Requirements for Minimum Design Loads in Buildings and Other Structures. The American National Standards Institute, 1430 Broadway, New York, NY 10018, has issued a publication on this subject. Available from them as A58.1-1969-1972, at \$7.50.

Miscellaneous Publication 187, Directory of Commercial and College Laboratories. A new Directory of Testing Laboratories issued as 333D is published by the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103, at \$3.75.

Miscellaneous Publication 211, American Standards Building Code Requirements for Masonry. The American National Standards Institute, 1430 Broadway, New York, NY 10018, has issued a publication on this subject. Available from them as A41.1-1953-R1970, at \$4.50.

NBS Handbook 28, Part 1, 2, and 3, Screw Thread Standards. Responsibility for screw thread standards for Federal Government has been transferred to General Services Administration (GSA). Standards will be promulgated as Federal Standard 28 by GSA. Technical Questions should be addressed to Mr. John McGlone, Directorate of Engineering and Standardization, Defense Logistics Agency (DISC), 700 Robbins Ave., Philadelphia, PA 19111, telephone (215) 697-4349. Questions regarding administration of the program should be addressed to Mr. Grant Beattie, Standards Control and Support Division, General Services Administration (Federal Supply Service), attn: FMHS, Washington, DC 20406, telephone (703) 557-0506.

Handbook 30, National Electrical Safety Code (also H81 and its Supplements and H110-1). All NBS publications on this subject have been superseded by National Electrical Safety Code, 1977 Edition, issued by the American National Standards Institute, 1430 Broadway, New

York, NY 10018. Available from them as ANSI C2, at \$6.50.

Handbook 46, Code for Protection Against Lightning. A United States of America Standards Institute Code for Protection Against Lightning (NFPA-78-1969) is available from the American National Standards Institute, 1430 Broadway, New York, NY 10018, at \$4.25, as C5.1-1969-1975.

Handbook 48, Control and Removal of Radioactive Contamination in Laboratories. Reprints of this Handbook can be purchased as NCRP Report at \$3.00 from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

Handbook 49, Recommendations for Waste Disposal of Phosphorus-32 and Iodine-131 for Medical Users. Reprints of this Handbook can be purchased as NCRP Report 9 at \$3.00 from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

Handbook 53, Recommendations for the Disposal of Carbon-14 Wastes. Reprints of this Handbook can be purchased as NCRP Report 12 at \$3.00 from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

Handbook 55, Protection Against Betatron-Synchrotron Radiations up to 100 Million Electron Volts. February 26, 1954 has been combined with NBS Handbook 97. Available as NCRP Report 51, Radiation Protection Design Guidelines for 0.1-100 MeV Particle Accelerator Facilities from NCRP Publications, Post Office Box 30175, Washington, DC 20014 at \$6.00.

Handbook 58, Radioactive Waste Disposal in the Ocean. Reprints of this Handbook can be purchased as NCRP Report 16 at \$3.00 from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

Handbook 59, Permissible Dose from External Sources of Ionizing Radiations. Reprints of this Handbook can be purchased as NCRP Report 39 at \$5.00 per copy from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

Handbook 63, Protection Against Neutron Radiation up to 30 MeV. Reprints of this Hand-

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Handbook 65, Safe Handling of Bodies Containing Radioactive Isotopes. Reprints of this Handbook can be purchased as NCRP Report 37 at \$4.00 per copy from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

Handbook 69, Maximum Permissible Body Burdens and Maximum Permissible Concentrations of Radionuclides in Air and in Water for Occupational Exposure. Reprints of this Handbook can be purchased at \$3.00 per copy from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

Handbook 71, Specifications for Dry Cells and Batteries. Available as C18.1-1972 from the American National Standards Institute, 1430 Broadway, New York, NY 10018, at \$6.25.

Handbook 73, Protection Against Radiations from Sealed Gamma Sources (Supersedes H54). Reprints of this Handbook can be purchased as NCRP Report 40 at \$5.00 per copy from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

Handbook 74, Building Code Requirements for Reinforced Masonry. The American National Standards Institute, 1430 Broadway, New York, NY 10018 has issued a publication on this subject. Available from them as A41.2-1960 (R1970), at \$3.25.

Handbook 75, Measurement of Absorbed Dose of Neutrons and of Mixtures of Neutrons and Gamma Rays. Reprints of this Handbook can be purchased as NCRP Report 25 at \$3.00 per copy from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

Handbook 76, Medical X-ray Protection Up to Three Million Volts. Now available as NCRP 33. Purchase from NCRP Publications, Post Office Box 30175, Washington, DC 20014 at \$4.00.

Handbook 80, A Manual of Radioactivity Procedures. Reprints of this Handbook will be available as NCRP Report 58 (in press). For

more information write to NCRP Publications, Post Office Box 30175, Washington, DC 20014.

Handbook 81 and Its Supplements, Safety Rules for the Installation and Maintenance of Electric Supply and Communication Lines (also H30 and H110-1). All NBS publications on this subject have been superseded by National Electrical Safety Code, 1977 Edition, issued by the American National Standards Institute, 1430 Broadway, New York, NY 10018. Available from them as ANSI C2, at \$6.50.

Handbook 84, Radiation Quantities and Units. Reprints of this Handbook can be purchased as ICRU Report 19 at \$5.00 per copy from ICRU Publications, Post Office Box 30165, Washington, DC 20014.

Handbook 89, Methods of Evaluating Radiological Equipment and Materials. Reprints of this Handbook can be purchased as ICRU Report 10F at \$2.50 per copy from ICRU Publications, Post Office Box 30165, Washington, DC 20014.

Handbook 96, Inspection of Processed Photographic Record Films for Aging Blemishes. Reprints of this Handbook can be purchased as PH 1.28-1973 at \$4.00 per copy from the American National Standards Institute, 1430 Broadway, New York, NY 10018.

Handbook 97, Shielding for High-Energy Electron Accelerator Installations. July 1, 1964 has been combined with NBS Handbook 55. Available as NCRP Report 51, Radiation Protection Design Guidelines for 0.1-100 MeV Particle Accelerator Facilities from NCRP Publications, Post Office Box 30175, Washington, DC 20014 at \$6.00.

Handbook 102, ASTM Metric Practice Guide. Available as Z 210.1-1976 from the American National Standards Institute, 1430 Broadway, New York, NY 10018 at \$4.00.

Handbook 110-1, National Electrical Safety Code. Part 1. Rules for Installation and Maintenance of Electric Supply and Communication Lines (also H30 and H81 and its Supplements). All NBS publications on this subject have been

superseded by National Electrical Safety Code, 1977 Edition, issued by the American National Standards Institute, 1430 Broadway, New York, NY 10018. Available from them as ANSI C2, at \$6.50.

Technical Note 938, Recommended Practice for the Use of Metric (SI) Units in Building Design and Construction, has been superseded by ASTM E 621-78, Standard Practice of the Use of Metric (SI) Units in Building Design and Construction. It is available from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103. Price \$5.00.

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347 (COM71-50202) ...	*	376 (SN003-003-01080-4)60	400-4 (SN003-003-01354-4)	1.70
348 (SN003-003-00893-1)	7.45	377 (SN003-003-01107-0)85	400-5 (SN003-003-01372-2)	1.10
349 (COM72-50807)	*	378 (COM73-50585)	*	400-6 (SN003-003-01313-7)60
350 (COM71-50276)	*	380 (SN003-003-01109-6)	2.10	400-7 (SN003-003-01635-7)75
351 (SN003-003-01027-8)	6.45	381 (COM73-50932)	*	400-8 (SN003-003-01374-9)	1.30
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74 (PB161-575)	*	122 (PB161-623)	*	199 (AD683-408)	*
75 (PB161-576)	*	123 (PB161-624)	*	200 (N64-14272)	*
76 (PB161-577)	*	124 (PB161-625)	*	201 (PB182-539)	*
77 (PB161-578)	*	125 (PB161-626)	*	202	*
78 (PB161-579)	*	128 (PB161-629)	*	204 (PB184-118)	*
79 (PB161-580)	*	129 (PB161-630)	*	205 (COM73-10634)	*
80 (PB161-581)	*	129A	*	206-1 (COM73-10684)	*
81 (PB161-582)	*	130 (PB161-631)	*	206-2 (COM73-10685)	*
82 (PB161-583)	*	131 (PB161-632)	*	206-3 (COM73-10686)	*
83 (PB161-584)	*	132 (PB161-633)	*	206-4 (COM73-10687)	*
84 (PB161-585)	*	133 (PB161-634)	*	206-5 (COM73-10688)	*
85 (PB161-586)	*	134 (PB161-635)	*	207 (COM73-10689)	*
86 (PB161-587)	*	135 (PB161-636)	*	209 (PB168-043)	*
87 (PB161-588)	*	136 (PB161-637)	*	210 (PB189-930)	*
88 (PB161-589)	*	137 (PB161-638)	*	211	*
89 (PB161-590)	*	138 (PB161-639)	*	214 (PB189-931)	*
90 (PB161-591)	*	139 (PB161-640)	*	215 (PB188-808)	*
91 (PB161-592)	*	140 (PB161-641)	*	217 (PB189-103)	*
92 (PB161-593)	*	141 (PB161-729)	*	218 (PB188-809)	*
93 (PB161-594)	*	142 (PB161-643)	*	219 (PB186-279)	*
94 (PB161-595)	*	143 (PB161-644)	*	220 (COM74-11077)	*
95 (PB151-596)	*	146 (PB161-647)	*	221 (COM71-00690)	*
96 (PB161-597)	*	147 (PB161-648)	*	223 (PB168-051)	*
97 (PB161-598)	*	148 (PB161-649)	*	224 (PB184-119)	*
98 (PB186-280)	*	151 (PB191-730)	*	225 (AD614-056)	*
99 (PB186-431)	*	154 (PB172-217)	*	226 (PB168-042)	*
100 (COM74-10393)	*	154A (PB182-435)	*	227 (PB184-473)	*
100-A	*	160	*	228 (PB191-731)	*
101-1 (AD687-820)	*	163 (COM71-01002)	*	229 (PB188-805)	*
101-2 (AD687-821)	*	164 (N-6314864)	*	231 (COM72-10587)	*
102 (PB161-603)	*	165 (AD401-044)	*	233 (COM75-10054)	*
106 (PB161-607)	*	166 (PB181-454)	*	234 (COM73-10485)	*
107 (PB161-608)	*	171	*	235 (COM73-10481)	*
108 (PB161-609)	*	172 (PB193-915)	*	236 (AD437-308)	*
109 (PB161-610)	*	173 (COM75-10523)	*	237 (COM75-10166)	*
110 (PB161-611)	*	174 (COM72-10376)	*	245 (PB184-177)	*
111 (PB161-612)	*	177 (COM72-10514)	*	249 (PB168-046)	*
112 (PB161-613)	*	178 (PB190-917)	*	252 (AD612-812)	*
113 (PB161-614)	*	179 (PB190-610)	*	253 (PB184-176)	*
114 (PB161-615)	*	180 (COM75-10083)	*	255 (AD614-257)	*
115 (PB161-616)	*	182 (COM75-10283)	*	260 (PB168-041)	*
116 (PB161-617)	*	183 (COM75-10052)	*	262-A (COM73-10486)	*
117 (PB161-618)	*	187 (PB188-807)	*	263 (COM75-10486)	*
118 (PB161-619)	*	191 (PB182-538)	*	266 (PB195-214)	*
119 (PB161-620)	*	194 See NSRDS155	267 (AD628-586)	*
120 (PB161-621)	*	195 (COM73-10418)	*		

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No.	Price	No.	Price	No.	Price
268	*	347	*	414 (PB176-109)	*
270-1 See TN270-3	3.25	349	*	416	*
270-2 See TN270-3	3.25	355	*	417	*
270-3 (SN003-003-00406-5)	3.25	360 (PB190-125)	*	419 (PB179-432)	*
270-4 (SN003-003-00407-3)	2.10	361 (COM73-50052)	*	420	*
270-5 (COM71-50171)	*	361 (SN003-003-01321-8)	1.25	421	*
270-6 (SN003-003-00932-6)	1.90	(Metric Version)		423	*
270-7 (COM73-50435)	*	362 (COM74-10482)	*	425	*
		363	*	426	*
		364	*	428	*
		365	*	431	*
		365-1 (COM71-00048)	*	432	*
		366	*	434	*
273 (PB248-534)	*	367	*	435	*
275 (COM73-10484)	*	368	*	436	*
277	*	370 (AD688-697)	*	437	*
278	*	372	*	438 (AD665-245)	*
279 (COM75-10375)	*	373	*	439	*
280 (COM72-10590)	*	374	*	440	*
285 (AD633-354)	*	375	*	444	*
287 (PB182-436)	*	377	*	445	*
288	*	378	*	461	*
291	*	379 (SN003-003-00834-6)	.65	464	*
292 (COM75-10335)	*			465	*
293 (AD642-236)	*	381	*	467 (COM72-50871)	*
294 (PB176-289)	*	382	*	469	*
295	*	383	*	470	*
297 (PB188-657)	*	384 (COM75-10174)	*	472 (AD681-330)	*
298 (PB186-238)	*	385 (PB190-548)	*	473	*
300 (PB168-048)	*	386 (PB191-638)	*	474 (AD681-351)	*
303 (AD611-400)	*	387 (COM74-50059)	*	475 (AD683-808)	*
304 (AD615-936)	*	388 (COM71-50077)	*	476	*
307 (PB168-040)	*	389	*	477	*
309 (N-65-24999)	*	390 (PB191-639)	*	478 (PB190-609)	*
310 (AD615-937)	*	391	*	479	*
318 (COM75-10374)	*	392 (COM74-50057)	*	480	*
319	*	393 (COM75-10043)	*	483	*
321 (COM75-10238)	*	397 (COM71-50060)	*	484 (AD692-231)	*
322 (COM75-10236)	*	398 (SN003-003-00814-1)	.40	485	*
323 (COM75-10237)	*			486	*
324 (AD654-887)	*	399 (COM71-50294)	*	487	*
331	*	400	*	488 (AD692-232)	*
332	*	403	*	490	*
334 (PB173-291)	*	406	*	491	*
341	*	409	*	495 (AD695-820)	*
343	*	410	*	496 (PB284-674)	*
345	*	411	*		
346 (PB194-282)	*	412	*		

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97 (AD695-821).....	*	569 (COM74-10436).....	*	604 (SN003-003-00861-3).....	.65
98 (SN003-003-00590-8).....	.65	570 (COM71-50075).....	*	605 (COM71-50332).....	*
98-1 (SN003-003-00774-9).....	.60	572 (COM71-50150).....	*	606 (COM71-50325).....	*
98-2 (SN003-003-00686-6).....	.70	573 (COM71-50227).....	*	607 (AD734-035).....	*
00 (PB191-352).....	*	575 (COM75-10280).....	*	609 (AD730-357).....	*
003.....	*	577 (COM71-50264).....	*	610 (COM72-50059).....	*
010.....	*	578 (COM75-10185).....	*	612 (COM72-50205).....	*
011.....	*	579 (COM75-10184).....	*	613 (COM72-50020).....	*
013 (AD702-871).....	*	584 (COM71-50635).....	*	614 (COM72-50523).....	*
015 (SN003-003-00606-8).....	.65	585 (COM72-50066).....	*	615 (COM72-50524).....	*
017.....	*	589 (COM72-50061).....	*	616 2nd Rev. (SN003-003-01798-1).....	1.30
019 (PB190-760).....	*	590 (COM71-50292).....	*	618 (COM72-50695).....	*
020 (AD702-833).....	*	591 (COM75-10168).....	*	619 (COM72-50955).....	*
022 (PB191-024).....	*	592 (SN003-003-00892-3).....	1.15	620 (COM73-50584).....	*
023 (PB191-057).....	*	593 (COM72-50031).....	*	621 (SN003-003-01055-3).....	1.10
024 (PB191-277).....	*	594-1 (COM72-50674).....	*	622 (COM72-51039).....	*
025.....	1.10	594-2 (COM72-51003).....	*	623 (COM72-51040).....	*
027 (AD710-906).....	*	594-3 (COM75-10183).....	*	624 (COM72-51041).....	*
028 (PB191-305).....	*	594-4 (COM73-50224).....	*	625 (COM72-51081).....	*
029 (PB192-153).....	*	594-5 (SN003-003-00159-7).....	.55	626 (COM73-50038).....	*
030 (COM71-00047).....	*	594-6 (SN003-003-01253-0).....	.95	627 (SN003-003-01108-8).....	1.00
032 (SN003-003-00776-5).....	.75	594-7 (SN003-003-01244-1).....	.75	628 (COM73-50263).....	*
033 (PB192-875).....	*	594-8 (COM74-50536).....	*	629 (COM73-50100).....	*
034 (PB192-877).....	*	594-9 (SN003-003-01342-1).....	1.10	631 (COM75-10334).....	*
035 (PB193-794).....	*	594-10 (SN003-003-01453-2).....	.85	632 (COM73-50238).....	*
036 (PB192-953).....	*	594-11 (SN003-003-01675-6).....	1.15	633 (COM73-50239).....	*
043 (COM71-00081).....	*	594-12 (SN003-003-01676-4).....	.75	634 (COM73-50339).....	*
044 (PB194-960).....	*	594-13 (SN003-003-01709-4).....	1.40	635 (COM75-10177).....	*
047 (COM71-00082).....	*	595 (COM71-50362).....	*	637 (COM75-10082).....	*
050 (COM71-00068).....	*	596 (SN003-003-00904-1).....	1.05	638 (COM73-50727).....	*
051 (COM71-50076).....	*	597 (COM75-10176).....	*	640 (COM73-50805).....	*
052 (SN003-003-00918-1).....	3.25	598 (AD732-553).....	*	641 (COM75-10281).....	*
054 (PB194-750).....	*	599 (COM71-50399).....	*	642 (COM73-50973).....	*
055 (AD718-534).....	*	600 (COM71-50297).....	*	643 (COM73-50885).....	*
057 (COM74-10405).....	*	602 (SN003-003-00880-0).....	.55	644 (COM73-50972).....	*
058 (COM71-50072).....	*			645 (COM74-50133).....	*
060 (AD719-976).....	*			646 (COM74-50842).....	*
062 (COM71-00128).....	*			648 (SN003-003-01246-7).....	1.25
063 (COM71-50341).....	*			649 (COM74-50308).....	*
066 (COM71-50062).....	*				
068 (AD728-642).....	*				

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650 (COM74-50430)	*	683 (SN003-003-01657-8)	1.00	718 (COM73-50206)	*
651 (SN003-003-01280-7)50	684 (SN003-003-01732-9)	3.85	720 (SN003-003-00989-0)6
652 (SN003-003-01299-8) .....	.50	685 (SN003-003-01789-2) .....	.65	721 (COM72-50467)	*
653 (COM74-50637)	*	686 (PB260-666)	*	723 (COM72-50535)	*
654 (COM74-50698)	*	687 (SN003-003-01714-1) .....	.75	724 See TN983	*
655 (COM74-51542)	*	688 (SN003-003-01715-9) .....	.65	725 (SN003-003-01003-1) .....	.7
657 (COM75-50069)	*	689 (PB263-104)	*	726 (AD748-788)	*
658 (COM75-50161)	*	690 (PB262-551)	*	727 (COM72-50538)	*
659 (SN003-003-01442-7) .....	.85	691 (PB263-103)	*	728 (COM72-50666)	*
660 (SN003-003-01383-8)	1.00	692 (SN003-003-01734-5) .....	.55	729 (COM72-50667)	*
661 (SN003-003-01350-1) .....	.80	693 (SN003-003-01710-8)	1.20	731 (SN003-003-01023-5) .....	.9
662 (SN003-003-01413-3) .....	.70	695 (SN003-003-01781-7)	2.80	732 (SN003-003-01029-4) .....	.7
663 (SN003-003-01405-2)	1.10	696 Rev. 1977 (SN003-003-01850-3)	1.50	733 (COM72-50812)	*
664 (COM75-10289)	*	697 (SN003-003-01862-7)	2.20	734 (COM72-50732)	*
665 (SN003-003-01403-6)	1.00	698 (SN003-003-01864-3)	1.30	735 (COM72-50873)	*
666 (COM75-10288)	*	699 (SN003-003-01865-1)	2.75	736 (COM72-50924)	*
667 (SN003-003-01560-1)	1.85	700 (COM73-50015)	*	737 (COM75-10170)	*
668 (SN003-003-01449-4)	1.05	702 (AD734-427)	*	738 (COM72-50810)	*
669 (COM75-10918)	*	703 (COM71-50607)	*	747 (SN003-003-01065-1)	1.2
670 (SN003-003-01586-2)	1.60	706 (COM72-50892)	*	748 (COM73-50209)	*
672 (SN003-003-01550-4)	2.40	707 (COM72-50054)	*	749 (COM73-50103)	*
673 (PB246-934)	*	708 (COM72-50062)	*	750 (COM72-51080)	*
674 (SN003-003-01559-8)	1.50	710-1 (COM72-50276)	*	751 (SN003-003-01093-6) .....	.8
675 (SN003-003-01596-2)	1.30	710-2 (COM72-50346)	*	752 (COM73-50624)	*
677 (SN003-003-01597-1)	1.20	710-3 (COM72-50520)	*	753 (SN003-003-01097-9)	1.1
680 (SN003-003-01616-1) .....	.50	710-4 (COM72-50521)	*	754 (COM73-50225)	*
681 (SN003-003-01652-7)	1.05	710-5 (COM72-50694)	*	755 (SN003-003-01094-4) .....	.7
682 (SN003-003-01653-5) .....	.80	710-6 (SN003-003-01087-1)	1.00	756 (COM73-50257)	*
		710-7 (COM73-50483)	*	757 (SN003-003-01092-8) .....	.4
		711 (COM72-50064)	*	758 (SN003-003-01115-1)	2.1
		713 (COM72-50204)	*	759 (SN003-003-01102-9) .....	.6
		714 (SN003-003-00974-1)	1.50	760 (SN003-003-01112-6)9
		716 (COM72-50361)	*	761 (SN003-003-01132-1)	1.1
		717 (AD740-674)	*		

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53 (SN003-003-01114-2)65	797 (SN003-003-01192-4)50	829 (SN003-003-01301-3)	1.10
54 (SN003-003-01131-2)65	798 (COM73-50930)	*	830 (COM74-50532)	*
55 (SN003-003-01135-5) .....	.60	799 (COM74-50135)	*	831 (SN003-003-01291-2) .....	.95
56 (COM73-50374)	*	800 (COM74-50141)	*	832 (SN003-003-01327-7) .....	.70
57 (AD758-981)	*	801 (SN003-003-01292-1) .....	.60	833 (SN003-003-01302-1)	1.20
58 (COM73-50379)	*	802 (SN003-003-01217-3) .....	.60	834 (SN003-003-01294-7) .....	.55
59 (COM73-50677)	*	803 (COM75-10279)	*	835 (SN003-003-01353-6)	1.95
70 (SN003-003-01136-3)	1.40	804 (SN003-003-01229-7)	2.00	836 (COM74-50567)	*
71 (SN003-003-01137-1) .....	.95	805 (SN003-003-01231-9)	1.20	837 (COM74-50636)	*
72 (SN003-003-01140-1)	1.25	806 (COM73-50928)	*	838 (COM74-50841)	*
73 (COM73-50534)	*	807 (COM73-50971)	*	839 (SN003-003-01303-0)	1.85
74 (COM73-50535)	*	808 (COM74-50085)	*	840 (SN003-003-01315-3) .....	.55
75 (SN003-003-01141-0) .....	.50	809 (COM74-50174)	*	841 (SN003-003-01312-9) .....	.60
76 (AD760-676)	*	810 (SN003-003-01211-4) .....	.50	842 (SN003-003-01310-2)	1.25
77 (COM73-50792)	*	811 (SN003-003-01245-9)	1.00	843 (COM74-50839)	*
78 (COM73-50523)	*	812 (SN003-003-01247-5) .....	.65	844 (SN003-003-01316-1) .....	.70
79 (COM73-50571)	*	814 (SN003-003-01235-1)	1.10	845 (COM74-50926)	*
80 (SN003-003-01158-4) .....	.55	815 (SN003-003-01232-7) .....	.60	847 (SN003-003-01340-4) .....	.80
81 (COM73-50536)	*	816 (COM74-50181)	*	848 (COM74-50943)	*
82 (SN003-003-01286-6) .....	.90	817 (SN003-003-01265-3) .....	.60	849 (COM74-50998)	*
83 (COM73-50682)	*	818 (SN003-003-01238-6) .....	.80	850 (SN003-003-01366-8) .....	.85
84 (SN003-003-01194-1) .....	.50	819 (COM74-50279)	*	851 (COM74-51065)	*
85 (SN003-003-01161-4) .....	.90	820 (COM74-50140)	*	852 (COM74-51085)	*
86 (COM73-50683)	*	821 (SN003-003-01257-2) .....	.60	853 (SN003-003-01330-7) .....	.85
87 (SN003-003-01163-1)	2.35	822 (COM74-50340) .....	.60	854 (SN003-003-01381-1)	2.00
88 (SN003-003-01439-7) .....	.80	823 (SN003-003-01264-5) .....	.60	855 (SN003-003-01367-6)	1.05
89 (COM73-50678)	*	824 (SN003-003-01258-1) .....	.65	856 (SN003-003-01371-4) .....	.65
90 (COM73-50665)	*	825 (See TN983)	*	857 (SN003-003-01423-1)	1.05
91 (SN003-003-01183-5) .....	.80	826 (COM74-50346)	*	858 (SN003-003-01433-8)	3.75
92 (COM73-50831)	*	827 (COM74-50457)	*		
93 (COM73-50927)	*	828 (SN003-003-01287-4)	2.05		
94 (COM73-50876)	*				

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859 (SN003-03-01543-1)	4.15	884 (SN003-003-01471-1)45	910-1 (SN003-003-01590-3)	2.10
860 (SN003-003-01401-0)	2.05	885 (SN003-003-01476-1)	1.45	910-3 (SN003-003-01785-0)	2.10
861 (SN003-003-01380-3) .....	.80	886 (SN003-003-01470-2) .....	.65	912 (SN003-003-01613-6)	2.00
862 (SN003-003-01402-8) .....	.80	887 (SN003-003-01545-8)	1.45	913 (SN003-003-01645-4)	1.00
863 (SN003-003-01404-4)	1.15	888 (SN003-003-01482-6)	1.65	914 (SN003-003-01636-5) .....	.80
864 (SN003-003-01400-1)	1.20	889 (SN003-003-01574-1)	1.80	915 (SN003-003-01631-4) .....	.70
865 (SN003-003-01411-7)	1.35	890 (SN003-003-01548-2)	1.10	916 (SN003-003-01626-8)	2.80
866 (SN003-003-01441-9)	1.85	891 (SN003-003-02186-5)	1.10	917 (SN003-003-01640-3) .....	.80
867 (SN003-003-01427-3)	1.25	892 (SN003-003-01549-1)	1.70	918 (SN003-003-01661-6)	1.10
868 (SN003-003-01430-3)	1.50	893 (SN003-003-01561-0)	1.30	919 (SN003-003-01658-6)	1.20
869 (SN003-003-01424-9) .....	.80	894 (SN003-003-01570-9)	1.45	920 (SN003-003-01648-9)	1.10
870 (SN003-003-01434-6)	1.05	895 (SN003-003-01564-4)	2.30	921 (SN003-003-01660-8)	2.20
871 (SN003-003-01435-4)	1.40	896 (SN003-003-01562-8)	2.15	922 (SN003-003-01668-3)	1.70
872 (SN003-003-01436-2)	2.10	897 (SN003-003-01589-0)	1.15	923 (SN003-003-01679-9) .....	.70
873 (SN003-003-01555-5) .....	.75	898 (SN003-003-01584-9) .....	.55	924 (SN003-003-01671-3)	1.00
874 (SN003-003-01438-9)	1.00	899 (SN003-003-01579-2)	4.00	925 (SN003-003-01680-2)	1.70
875 (SN003-003-01448-6) .....	.65	900 (SN003-003-01611-0) .....	.75	927 (SN003-003-01683-7)	1.10
876 (COM75-11113)	*	901 (SN003-003-01607-1)	1.15	928 (SN003-003-01711-6)	1.10
877 (SN003-003-01455-9) .....	.80	902 (SN003-003-01598-9)	2.70	929 (SN003-003-01694-2) .....	.80
878 (SN003-003-01440-1) .....	.65	903 (SN003-003-01578-4) .....	.85	930 (SN003-003-01672-1) .....	.50
879 (SN003-003-01432-0)	1.10	904 (SN003-003-01617-9) .....	.75	931 (SN003-003-01689-6)	1.80
880 (SN003-003-01447-8) .....	.85	905 (SN003-003-01610-1)	1.10	932 (SN003-003-01703-5)	1.10
881 (SN003-003-01469-9)	1.10	906 (SN003-003-01630-6)	1.35		
882 (SN003-003-01462-1)85	908 (SN003-003-01643-8)	1.55		
883 (SN003-003-01475-3)	1.45	909 (SN003-003-01615-2)	1.05		

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3-110 (COM73-11191)	A07	73-182 (COM73-11284)	A05
3-112 (COM74-10702-03)	A04	73-183 (COM73-11177)	A04
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